# BRIC PROJECT

A STUDY OF SOCIAL COMESION IN ELAMENTARY
THACHER TRAINING INSTITUTIONS AND ITS
RELATIONSHIP WITH THEIR EFFECTENCY

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## LONENO AD

Institutions have an organization of their own educational institutions being no exception to it. In efforts of each of the individual and organizations various aroups are coordinated in a way that they contribute to the productivity of the organizations. Juman organisations have complex interactions in the group which produce conceiveness. It is interesting to study now this cohesiveness in the organisations, teacher training institutions in this case, affects institutional efficiency. The present study conducted by De. I.A. Januara, Reader in the Department of Teacher Education and supported by Edilo investigates into the relationship between social comesion amongst teacher educators in elementary teacher legining institutions and their efficiency in terms of student teacher outcomes. The study, though confining to only one state, provides trends of relationships.between the variables of social cohesion, student tracher attitudes and adjustment. The trend shows significant correlations be twich the criterion variables and student teacher achievement in theory and practice. The data has been analysed .mploying correlational, inferential and predictive

statistical procedures. It opens up a new area of research wherein microstudies can provide empirical data for improving effectiveness of the teacher training institution as an organization.

It is hoped that the study will attract attention of the researchers working in this area of educational research as well as practioners in teacher education. The purpose of the study will be achieved, if more research in this area is conducted.

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#### PREFACE

Teaching is an activity which is carried on in an environment. Classroom environment is considered to be a part of classroom teaching. The classroom itself is located in the institution which has an environment of its own. The institutional environment besides physical setting, is determined by the interaction among staff members. The human relations and a series of interactions build up the social climate in the The quality of the social climate in the classroom. institution is built up through what has be n bemad as social cohesion a comenting force aris no out of the interpersonal autraction amongst teachers. quality of social cohesion obtaining in educational institutions is also determined by the leadership style of the Head and the attractiveness of the institutional goals. This context variable affects nupil outcomes which is an index of teaching off.ctiveness.

The study of the context variable of social cohesion appears to be quite important since it is likely to affect classroom transactions, and as a consequence pupil learning outcomes. There are few studies available on this variable in the context of educational settings, though a large number of studies have been carried out in the context of industrial management,

defence establishments and commercial organisations. studies in the teacher training institutions are almost conspicuous by their absence. The present study conducted provides a beginning for further exploration of this involtant area of coucational research. The study has not a nable to provide conclusive fundings, but it has faint as some trends. For example, social cohesion Lasures have been found to be related to student teacher this variant in theory as well as practice. These variables, how ever, are not significantly correlated with student tircher attitudes and adjustment except in a couple of areas. Social cohesion scores have also been found to be strong predictorsof student teacher achieverent in proctice teaching, but weak predictors of achievement in theory. The trend, however, is that social cohesion with student teacher achieve-" ...t. Frohably, research linking the context variable of social conesion, process variable of teacher behaviour no reduct variable of saudont teacher outcomes will Large further light on the problem. The area is promising, provided rly, from the viewpoint of management of Educational \_ ristitutions.

Several persons have been associated with the study at different stages. Mrs. R.K. Chonra, Lecturer helied in preparing the CGaI and scoring a n -t. Mrs. Such me Yadav assisted in scoring and tabulation of data. Ars, Poma Dutta shared her data relating to student teacher attitudes and adjustment from the institutions which were common in the present study and her own study. This enriched the wresent and made the findings more meaningful. I well indebted to all the three in commleting the study. The MMC incretariate provided the necessary fin-neil support for the study. Lastly, I owe gratitude to Mrs. Meinakhi hermi, Mr. I.J. Chauhan, Missanita Jain and Mr. Raj Room for the secretarial assistance they provided at ifferent stage of the study.

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Navembar 2, 1982.

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Header in Lducation

#### 1.0 Backdron

- inception of human civilization, individuals have learn to function in groups. Why numar beings floor, even animals have the tendency to function in groups. The arts provide a excellen thought or droup behaviour. They all combine toglet the originals a corporate life for meeting the necessities of large. The threat to one bring sympathy and defence from the rest of the specy. This is true of most of the species of life, humans being no exception to it.
- 1.2 A cursory examination of the human benaviour reveals als social instinct. Even in the competitive society of today based on a high level of individualized orientation one can observe that most of our time is spent in groups. In the family one can dicern a group where members have a close affinity directed towards family goals. In the school, one can observe a number of groups-aninstructional group in the class, a play group on the field, a dramatic group on the stage, a literary group in the literary society, a science group in the laboratory, and so on.

professional groups function in the office, in institutions, in industrial organisations and business establishments. In the community one can find a religious group, voluntary organisations for social work and a variety of recreational and intellectual follows. Evidently, if a man's day is surveyed, one would find that a major portion of his time is spent in one group or the other. That is why group dynamics is receiving more and more extention in recont years.

Why do people function in gr.ups? How do reople select a group for membership? What is the force that binds people together in a part cular groups? Does this binding force correlate with and result in group productivity? These are some of the pertinent questions in search of answers. The answers to these questions would provide Direction for improving the functional effectiveness of groups.

1.3 Group comprises a number of similar people who interact amongst themselves. A simple group with which everyone is familiar refers to the family. Here the similarity is in terms of the shared heredity and environment as well as common family goals. The similarity can also be visualized in terms of people belonging to different atomic groups or even within the same ethnic group which goes beyond the confines

of the family. In this case, besides the common goal orientation which is the basic essential of a group, the members have some kind of attraction amongst them. It implies that the primary purpose for which a member joins a group is his need and the extent to which he perceives the potentiality of the group goals to satisfy his need. Simulteneously, he also considers other members and his own going-alongness with them. This going-alongness, besides the commonality of the goals, also depends upon the attractability he perceives in other group members. This characteristic is considered be to the cementing force in the group and is termed as cohesiveness.

English and English (1958; in dictionary of Psychological and psychoanalytical Terms it as the the over-all attraction of group for each of its members. In the Dictionary of social Sciences, Festinger (1980) considers it as a group feeling which is based on togetherness. Epuld and Kalb (1967) visualise it as the motivation of an individual to maintain its membership in a group. International Encyclopedia of Social Science (1968) considers "Social cohesion as the cement drawing and binding individuals to-gether into groups". Cartwright and Zander (1963) also reflect this line of thinking.

1.5 One common denominator in different definitions of social convision refers to the mutual attraction among group members. What can be the overt behaviours representing this interpersonal attraction among the members? Five categories of these behaviours cataloqued in Cartwright and Zander (1966) are: a) interpersonal attraction among group members;b) - valuation of the group as a whole by the individuel member; c) closeness with the group; d) express d sire to remain in the group; and c) perception of the style of leadership and opportunity to participate in the decision making process. Viewed in the context of educational institutions social conesion implies interpersonal attraction among the staff members manning the institutions evaluation of the institution as a composit entity; identification of the member of staff with the institution; express desire to remain in the institution and peception of leadership style alongwith decision making process obtaining in the institution as perc iv d by the members of staff. This operational definition of social cohesion appears to be quite reasonable to work on.

- 1.6 The concept of social cohesion energing from the operational definition when analysed yields several implications. The groups are likely to vary in terms of social cohesion depending on the degree of interpersonal attraction obtaining in the group. The variation in social cohesiveness is likely to affect the realisation of group goels which can also be termed as group productivity. There may be several other determinants of group productivity, but social cohesion is likely to turn out to be a potential determinant.
- 1.7 Looking back it was in early breatisth century that psychological research sets its sight on the improvement of workers' efficiency and discipline. The attempt originated with the orientation termed as scientific management (Tayler, 1911). Sometimes in 1930 the scope was enhanced to encompass the social component in production setting. Against this background, research in the area of social cohesion assume a good deal of practical significance. Initial work suggests that cohesiveness can be helpful in work groups. It was discovered that workers in cohesive group generally display high level of morale and satisfaction with tacir tob (harquis, 1951)

Gross, 1954; Exline, 1957): Cohesiveness, it was found, also increases members' sense of security with improved self regard. They feel less nervous. The reason may be the mutual support the group members provide to each other (Seashore, 1954). The workers in high cohesive groups tend to score higher on the measures of self esteem and feel free to report even contacting events to others in the group (Julian, 100) and express their emotions unhesitatingly (French, 1941 and Papitone, 1955). Another factor associated with coachigh level of social cohesion in the group refers to absentees. It has been found that members in the high cohesive group have less absentees in the group than those with low cohesion (Fox and Scott, 1943).

1.8 The increased morale, self esteem and job satisfaction in cohesive groups obviously raised another question of practical significance. Does social cohesion affect production in the establishment? Does improved social cohesion in the work group increase production? On the face of it, people appear to do better work in the positive atmosphere of the cohesiv: group, because they expect their peers to exhibit approval for their efforts (Secks, 1952). Studies of job proficiency indicate that people do better work amidst friends rather than strangers (Husband, 1940).

Amny units are comparatively more efficient at reconnaissance tasks when they are high in cohesiveness (Coodacarce, 1951). Probably, high performance may be the outcome of increased co-operation (Haythorn, 1953) and with high level of communication featuring the cohesive group (Lott and Lott, 1961).

duman relations research also provides (vidence for better productivity in terms of adjustment, self concept/self esteem, morale, job satisfaction and production. The exception is when the effect of cohesiveness is marred by what has been termed as group think (Janis, 1968). Group think is a way of thinking in which a cohesive groups need for unanimity overhelms the members' realistic appraisal of alternative courses of action (Gergen and Gergen, 1981). Group members foll reluctant to erraisise their friend's They have the tendency to fit in with the group : deaand keep the group feeling flowing through conformity (Brand Statter, 1978; Schuler and Pelzer, 1978). 1.10 In the context of (ducational institutions several questions relating to social cohesiveness arise. Can the concept of social cohesion doveloped in the context of noneducational groups be applied to educational groups? For example, can we study social concaion in the educational institutions? If yes, to what objectives?

The answers to these questions appear to be in the affirmative as a number of concepts developed in psychology in general and social psychology in particular in noneducational settings have been us fully employed in education. Group dynamics, learning theories and a lot more from psychology have provided quiding principles for instructional methodology and management of the intional institution as an organization. Classryom uts 110 hern visualized as a social system (Thelan, 1969). 1.11 Social cohesion according to the definition prive : at elsewhere in this section envisages interper and attraction in the group called aducation faculty. It comprises interpersonal behaviours carrging from interpersonal perceptions and perceptions of the learn relief and decision making process. Following analogy from other fields higher level of social cohesion should be accompanied by higher level of motivation in the wachers, higher level of job satisfaction, higher level of selfesteem and higher level of morale. They may also evince high level of task involvement in the institution. is well known, the major task before the teacher is instructional. With his better input in terms of task involvement, it is likely that the pupils would exhibit better outcomes in terms of achievement, adjustment, attitudes, and so on.

But the question is whether this logico-deductive theoretical position is supported by the empirical evidence as well.

1.12 The studies in the educational institutions employing this context of social cohesion directly aiming at the specific gnal cited above are consciouous/ their absence (Buch, 1974, 1979). Noweyer, studi s using organizational elimate index are available. The relationship between the organizational climate obtaining in the educational institutions and pumil outcomes is retired inconclusive. studies have yielded maked results (the mm., 1979). The only study using the concept of social cohesiveness in the context of educational institutions conducted in India is at the doctoral level (Babu, 1976). The study purported to investigate the level of social cohesion obtaining in higher secondary schools. The product moment correlation between cohesiveness and job satisfaction of teachers were found to be significant. Linguistic affiliations were somewhat related to group cohesiveness. cohesiveness and worries/anxieties related to job were not found to be related. At the teacher training level, the only study in this area investigated relationship between social cohesion in these condary colleges of education and student tracher attitudes.

The product-moment correlation between the two variables were significant only in respect of the subscores of student teachers attitude towards classroom teaching, pupil centred teaching, educational process and student teacher attitude towards pupils (Dhaka, 1981). At the elementary teacher education level, no study could be located. It was, therefore, considered desirable that a study of social cohesion in the teacher training institutions at the elementary level in relation to student teacher outcomes may be designed. The present study is an attempt in this direction.

#### 2.0 Problem Statement

## 2.1 The problem was stated as:

A STUDY OF SOCIAL COHESION IN ELEMENTARY TEACHER
TRAINING INSTITUTIONS AND ITS RELATIONSHIP WITH
THEIR EFFICIENCY.

Obviously, the study uses two terms relating to two variables. Social cohesion is a social force arising from the interpersonal attraction of the group members. The behaviours are classified into five categories, namely, interpersonal attraction, evaluation of the group as a whole by the individual, closeness with the group, express desire to remain in the group and leadership and decision making process, perception. Decial cohesion has been

studied both as a composite summative variable as well as its five constituent component variables. Efficiency of the institution technically covers a large number of such components as sindent outcomes, the level of wastage and stagnation, casi effectiveness, etc. In this particular study, however, the student outcomes have been selected as the criterian of institutional officiency for the obvious reason inat it is the core vital objective of teacher education. To that extent, the term has been used in a limited sense. The pupil outcomes also comprise several dimensions like achievement, adjustment and attitude. The study started will only atudent teacher achievement in theory and practice teaching as the product variable, but the later offective variables were also added later on due to the availability of the 'data' from another study (Dutta, 1982). The data were posted for carrying out multivariate analysis involving regression analysis.

The achievement has been studied along several dimensions. Theory coursewise (pedagogical papers) and practice teaching course have been treated separately. The total achievement in theory has also been covered. The adjustment of student-teachers covered their adjustment to teaching, teachers, pears and institution. The total adjustment has also been studied. Student teacher

attitude Enventory namely attitude towards teaching

profession, attitude towards classroom teaching, attitude
towards child control practices, attitude towards educ-tional process, attitude towards pupil and attitude
towards teachers.

In addition their
attitude towards the institution was studied.

2.3 The study was primarily designed following correlational approach. It purposited to answer a simple question whether social cohesion of clementery trache, training institutions is related to student teacher outcomes. Besides, a few more questions wer considered for seeking answers through the study. Do institutions with high and low social cohesion differ significantly on student teacher outcomes? Does social cohesion predict student outcomes or vice versa. The study focussed on the ouestion through comparing student teacher outcome means of the teacher training institutions with high and low social cohesion, and application of stopwise repression analysis for the prediction of criterion variables. Several combinations of the predictor and eritarion variables have been considered for processing data. Prediction of social cohesion from achievement, - liustment and altitude variables; prediction of

achivement from social cohesion, sititude and adjustment sorres, and practice teaching scores from the rest of the variables.

The study was conducted in the state of Utter Pracesh, which has 185 elementary teacher training institutions running two years course. Final year students were selected for the study as it was considered that they might have formed stable perceptions of the social cohesion in the institutional staff and their exposure to social forces in this institution might be reflected in their behaviours.

## 3.0 Objectives

- 3.1 The following specific objectives of the present study emerged from the statement of the problem.
- 3.1.1 To study the social cohesion obtaining in the elementary teacher training institutions.
- 3.1.2 To study the relationship between sets of social cohesion scores (total and on the five areas) and the scores of student teachers on achievement, adjustment and attitudes.
- 3.1.3 To compare the mean scores for student teachers in distitutions with high and Jour social colusion on achievement, adjustment and attitude.
- 3.1.4 To predic, social cohesion in clementary teacher

- training institutions through different variables comprising achievement, adjustment and attitudes.
- 3.1.5 To predict achievement from different social cohesion scores and student leacher adjustment, attitude . and secio-commomic status scores.
- 3.1.6 To prodict teaching practice scores of student teachers from different social cohesion scores and student teacher teach.r pedagonical achievement, -tillude, adjustment and social cohesions.

#### 4.0 Hypothess s

- 4.1 In order to realize the objectives (3.1.2 and 3.1.3)
  the following null hypotheses were formulated:
- The mean social cohesion scores of the teacher training institutions are not significantly related to the mean institutional scores or student teacher achievement, attitude, and adjustment.
- The difference between the mean scores of institutions with high and low social cohesion on student teachers' achievement do not differ significantly.
- The difference between the mean score of institutions with high and low social cohesion on student teachers' rejustment do not differ significantly.
- The difference between the mean score of institutions with high and low social cohesion on student teachers' attitude do not differ significantly.

# 5.0 acrowds of Hyrotheses

5.1 The four hypotheses have been formulated . mill hypotheses as supporting evidence required for formulating the directional hypotheses is not available. The social cohesion in the context of educational institutions is practically an unexplored area and prediction objective 3.1.1 is descriptive in nature. The objectives 3.1.4, 3.1.5 and 3.1.6 relate to prediction.

## 6.0 Delimication

- 6.1 The study has remifications in several directions. Considering the constraints of time and resources, it was limited in a ms of the level of teacher aducation, geographical area, institutions, variables selected for the study.
- 5.2 The study was confined to elementary teacher education level. In terms of geographical area, the study was confined to only Uttar Pradesh. Further, it was confined to the institutional efficiency variable of student teacher outcomes in respect of achievement, adjustment and attitudes. Practice teaching was also covered. These variables were set in the focus of one study, since they constitute the major concern of teacher education and represent its qualitative demension.

therefore developed specifically for this purpose. The developmental steps and technical information regarding SCAT follows.

4.1.? Considering the operational definition of social cohesion in the context of educational institution draft items were prepared in each of the component areas.

These draft items were examined by a panel of expects regarding their clarity and belongingness to the error for which they were constructed. The tople-2.1 provides areawise draft items:-

Table 2-1
Areawise Draft Itans

ة مستاء الخواط الوساء و	Area	<u> Prof</u> Ttems.
1.	Interpersonal Attraction among group members,	13
II.	Evaluation of the groupss a whole by the individual member,	15
III.	Closeness with the group.	10
IV.	Express dosire to romain in the group.	10
۷.	Style of leadership and opportunto participate in Decision making process.	ity g 15
and the second s	Total	62

4.1.3 The draft items included check items as well as
positive items. The chack items were classified as
negative items. The items were answered by the teacher
eductors with a view to judging social cohesion in their
institutions. The items had three situations for cate-
gorization of the respondent judgements, namely,

gorization of the resp बेहुत बार ऐसा ही होता है	pondent judgements कभी कभी ऐसा अनुभव होता है	, namcly, कभी भी ऐसा अनुभव नहीं होता
		F. Vest, educated and particular and the state of the sta
Mostly happens like this.	Sometimes happens like this.	Mover happens like this.
For each of the situated ded. The answers were		•
Some sample items are	given below:-	
l- इस विद्यालय से मुझे तगाव सा हो गया है। I have started liking this institution.		
2- मेरे साथी अध्यापक चेरे हितों का ध्यान नहीं स्थेते		

My colleagues do not bother about my welfare.

4.1.4 The tool comprising 62 items was tried out on 200 elementary teacher educators of states of Madhya Pradesh, Uttar Pradesh, Himachal Fridesh, Rajasthan, Punjab and

Delhi. The items were scored and item-item product moment correlation matrix was prepared. Correlation between item score and the total score were also obtained. Fifty items having significant correlation with the total score, len in each area, were selected.

Reliability: 4.1.5 Cronbach Alpha was calculated for the tool as a whole and for the five areas esperately. The Alpha values serving as reliability coefficients are

Table 2.2 Grombach Alpha Adiability Co-efficients for 3CAI.

given in table 2.2.

S.No.	)rea	Jigha value
1.	Interpersonal attraction among group members.	•59227
2.	Evaluation of the group as a whole	<b>.</b> 80⊿69
3•	Identification with the group.	• 49294
4.	Express desire to remain in the group.	•51174
5.	Style of leadership and opportunity to participate in decision making process.	•54803
	10 tal	•89420

The content validity was established through expert judgement. The tool is internally valid, since the correlation between the itemscores and the total score are significant.

- 4.2.1The tool has been developed by Dutt (1980, in press). The tool comprises 70 items divided in four areas of adjustment namely adjustment towards teaching, peers, teachers and institutions. The relability using Kuder Richardson-20 comes out to be .89 for the total inventary and .68.

  .74, .74 and .69 for the areas relating to teaching, peer, teacher and institution respectively.
- 4.3.0 Teacher attitude Inventory (TI)

  4.3.1 The tool consist of 90 items and covers six areas of attitude, namely, teaching profession, classroom teaching, child cantrod practices, educational process, pupils and teachers. The test retest reliability was found to be 0.79.
- 4.4.0 Attitude Toward Institutions Inventory

  4.4.1 The attitude inventory at 4.3.0 does not cover teachers attitude towards the institution so the tool developed by Dutt (1981) was used for this purpose. The reliability of the tool using Gronbach Upha comes to.
- 4.5.0 Student Teacher Achi. vemen. Proforma

  4.5.1 The proformal was divident to collect student teacher marks obtired in theory papers as

## 1.0 Approach

- It will be recalled that the study purported to focus on the relationship between social cohesion obtaining in the elementary teacher training institutions sampled for the purpose with different measures of student teacher achievement, adjustment and attitude. The institutions with high and low social cohesion were also to be compared on the criterion variables. Further, an attempt was made to predict achievement from the social cohesion scores social cohesion was predicted from product variables. SESand adj. stment and attitude of student teachers. The first objective is more or less a descriptive study of intercorrelations amongst different variables. Hypotheses for testing the significance of difference of means were formulated for the second objective. The last one is a combination of descriptive and inferential treatment of the data using stepwise regression analysis.
- 1.2 Although statistical procedures to be used for realising the objectives of study through analysis and

interpretation of the data were mentioned in the preceding chapter, here it will be appropriate to commerce all variables used in the analysis and interpretation. It will be helpful in reading through the tables meaningfully. The table below catalogues the variables alongwith their code numbers used in computarization of the data.

contd:-

Table 3.1
Variables with Computerisation Codes

			Variable
Tea	Computer Code	Variable ' ( bbreviated	
	1	· Form)	(exbance roma)
-		1	And the state of the second of the second se
	91	' ' IP \	' Interpersonal
	1	1	' attraction among
	1	1 1	group members.
	, 05	1 EGW	' Evaluation of the
12	1	1	' group as a whole by
Si Si	f	? 1	the member.
Wolesion	1 03	' C'VG	' Closeness with the
8	1	1	group.
Ħ	. 04	' edag	'Express desire to
ij	1	1	' remain in the group.
SCI	1 05	LSDM	i I leadarchin style
	1		' Leadership style ' and decision making.
	, 06 i		<u> </u>
	1 1	3CST	' Total social cohesion ' score:
	† †		
	1 1 1 1		The state of the s
	1 07 1	PE 1	radioapted of
	1 1	1	Education.
	1 08 1	EP '	Educational Esychology
	1 1 1 09 1	7 77 .	
	1 1	FT	Principles of Teaching.
	10 1	EEG	Educational Evaluation
ENT	' '	1	rand Counselling.
_	1 11 1	IFE '	roblems of Primary
<b>行</b> 一	1	1	Education.
$\frac{\epsilon}{2}$	•	i TTi,	ichi vement Theory
*7 ,	•	1	Total.
1	•	1 TTT 1	
1	1	FTT	Tractice Teaching Total.
1	•	1	** - T.
	1	1	

,\rea	Computer 'Code '	Variable (Abbreviated)	Variable (cxpanded form)
	1 13 1	ADT	Adjustment to Teaching.
L	1 14	#DP	Adjustment to Pura
5 TME	15	ADTR	' Adjustment to Teachers
J. O. C.	16	ADI	djustment to Institution.
	1 26 1		Adjustment Total Score.
Sceio&	<u> </u>		· Socio-Económic
Economi Statůs		•	Siatus
	18	· ATF	Attitude towards Teaching Frofession.
	1 19	ACT	Attitude towards Classroom Teaching.
	20	ACCF	<pre>! Attitude towards ! Child Contred ! Practice.</pre>
UDE	21	ALT	· Attitude towards ! educational process.
ATII TUDE	· 22	ΛI	! Attitude townrds ! pupil.
,	1 23	ATR	' Attitude towards ' Teachers.
	27	ATS	' \ttitude total Score.
والماكي سناوا الذاب المستقدة ويوري ويساوا		TI,	' Attitude towards ' Institutions.
	1 34	1	1

The scores are not added to ATS Computer Code 27 because has been measured from a different tool.

The computer codes and variable-specifications will help in reading the tables giving statistical treatment to the data that is to follow.

# 2-0 Results: Correlational

It provided a birds eyeview of the intercorrelations monist different variables. The table 3.2 provides for intercorrelation matrix. The table dulues of correlations significant at .05 and .01 levels are .332 no .433 respectively. The intercorrelations in the atable will have to be studied in the light of these table values.

Application of the party of the latter of the section of the secti	Soci	al Cohes:	ion			T
Variables	]	2	3	4	5	6
1.	1,000	-	_	•		
2.	·815**	1.000 -	-	_	-	-
3.	•760**	•633 <del>**</del>	1.000	-	-	-
4.	•764**	•660 <del>**</del>	•696 <del>**</del>	.999	-	•
5.	•873 <del>**</del>	•805 <del>**</del>	•747**	•753**	1.000	-
6.	• 938 **	•866 <del>**</del>	•867**	•858**	•940 <del>**</del>	1.000
. 7.	• 364 <del>*</del>	•318*	·149*	•313	•363*	• 333*
8•	.200	• 151	• <u>1</u> 63	.202	.014	• 154
9.	•216	•275	140	.098	• 141	•118
10.	• 306	•470**	•078	·213*	• 346	• 308
11.	•230	•281	• 111	· 189	-245	•232
25.	•481**	• 565**	• 122	• 36 <sub>4</sub> *	.403*	* •418 <b>*</b>
12.	• 405*	•321	• 37 <u>1</u> *	•522**		• 445**
13.	•257	• 161	• 308	.074	185	•225
14.	039	010		098	.062	<b></b> 000
15.	~•252	-•293		- 108	168	200
16.	062	095		- • 062	··· 0/17	080
26.	012	057		.053	.0 <u>22</u>	<b></b> , 004
17.	028	.044	033	.273	.017	,063
18.	,057	.008		019	085	.059
19.	-• 123	101		-•138	007	967
20.	060	107		002	072	• 078
21.	-• 167	110		- • 045	016	087
22.	023	.002	•069	.029	• 136	•056
23,	• 015	•066	195	• 138	• 121	• 152
27· 24·	049	026		011	.090	.026
24.	065	032	.029	049	.045	009

		Act	ij <b>ov</b> cme	nt		T	F.0.	SES
Vari-	7	8	9	10	11		12	17
ables	)							p. 44 ·
	- det farmt nemde de lin	the will be seen to take the	airei anniniminer	M at an invidence this	ره د میشهدی <del>نین دهها نیاز</del> یه	के <b>क्रि</b> केटको कृतिको र <sub>ि</sub> क्ष		I am brains the
1.	-	-	-	=	<b>*</b>	н	<b>.</b>	-
2.	=	=	-	=yt	-	_	<b>m</b>	
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8•	• 048	1.000	-	-	_	••		-
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10.	• 072	-•219*		• 999	-	-	 #	-
11.	• 177	~ 118	207	.271	• 999			_
25.	• 393 <b>*</b>		•691	• 698 x	+x . 608 x	FH 1.0	-	
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13.	•274	• 063	032	.015	•284	.204		
14.	`• 153	263	01€	1)05	051	100	30	
15.	083		-•087	091	.044	097	34	_
16.	059		•222	.027	•216	179	22	
26.	103	073	.014	016	• 138	05.1	36	•
17.	129	-119*		<u>- 1</u> 57	, 156	166	, ,	7* · 999
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2.2 The tribe 3.1 can be divided into five segments for interpretation on the basis of the areas covered. The first segment covers intercorrelations in the area 1-6x1-6, 1-5 being the intercorrelations between different areas of social cohesion while 6 representing the summated social cohesion score. In examination of this area of the intercorrelation matrix reveals quite high intercorrelations in all cells most of which are significant at .01 level. High correlations in row 6 represent contribution of each of the five areas to the total social cohesion score. High intercorrelations in the remaining part indicates overlap among different areas comprising social cohesion.

2.3 The next segment of the intercorrelation matrix (7-11, 25, 12) x (1-27) yields 49 intercorrelations. This is an important segment in the sense that it covers student teacher outcome variables of achievement. Hows 7-11 cover their scores in the five theory papers, row 25 covers total achievement in theory and row 12 indicates scores in practice teaching. Within this also the major concern of the study is for intercorrelations in the subsegment (7-11, 25, 12) x (1-6). These particular correlations are addressed to the objective 3.1.2 in the first chapter. On examination of the subsegment

reveals that the student teacher mean score in the paper on principles of Education (07) has significant correlations with the social cohesion area scores of ECW ISDN and SGS at .OI level. It also has positive correlation with CD and apply without reaching significance level. Thus row 7 in the matrix reveals that student toacher achtevement in the periodiples of Education is related to social coresion obtaining in the teacher training institution covered in the study. In the case of student or our achievement scores in Educational Psychology row 8 of the Intercorrelation matrix reveals positive correlation; with six social cohesion scores but none of them is significant. same trend is discernible in the case of correlations between social cohesion scores and student teacher scores on principles of Teaching as is evident from a perusual of row 9 with the only exception that the correlation of student teacher scores in this paper are negatively correlated with closeness with the group (CC). Row 10 gives correlations between the mean social cohesion scores and student teacher achievement in Educational Evaluation and Counselling. The correlation between the mean student terener achievement scores and mean scores on EGW are significant at .Ol level and the student ceacher

achievement in this paper has positive significant correlation with LSDM at .05 level. The remaining four correlations in row 10 are positive without reaching the significance level. Row 11 giving correlations between the six mean scores of social cohesion and student teacher achievament suo is in the paper on the Problems of Primary Education are vusitive but not significant. The row with computer cook at catalogues correlations between the student wacher total achievement in the five theory papers and six morn scores of social conssion. The convilations between student teacher achievement and the social cohesion mean scores on IPA, EGW, ISDM and SCST arc significant at .01 level the correlation between student teacher achievement mean score and EDRG are significant at .Ollevels. Its correlation with CMG, nowever, is positive without reaching significance level. The correlations in row (25) indicate positive relationship between the social cohesion scores and student teacher achievement scores (theory papers combined together).

2.4 How 12 of the intercorrelation matrix gives a set of correlations between student teacher mean score in Fractice Teaching and the six mean scores of social on sim. The correlations follow almost the same trend as row (25). The correlations between student teacher mean score on achievement with social cohesion

scores of EDAG and SCST are significant at .01 level and its correlation with IPA, EGW, GWG and LSDM are significant at .05 level. This implies that the student teachers tend to achieve heigher in teacher training institutions with higher level of social cohesion and they tend to achieve level in institutions with low social conesion.

- 2.5 The scyhent 13-27x1-6 gives intercorrelations between student teacher mean score on the five variables of adjustment, eight variables of adjustment, eight variables of attitudes and SES. This segment contains low correlations. None of the correlations is significant at .05 level. The correlations present a mix of positive as well as negative ones. This segment however, presents interesting reading, if examined clos ly.
- 2.6 Row 13 provides correlations between student teacher mean scores or adjustment to teaching and the six scores on social cohesion. Its correlation with CWG, IPA and SES are more than .2, of course, without reaching significance. The remaining three correlation are positive but below .2, obviously, they are not significant. This is the only row where all the six correlations are positive.

It indicates the tendency of better adjustment level towards teaching in institutions with higher level of social cohesion. In other words, student teacher adjustment to teaching increases with the coricsponding increase in institutional social cohesion The relationship between the student teacher adjustment to peers and social cohesion are mostly negative although they are not significant. size of correlation is also small since all of them are below. 1. The negative correlations may be due to mutual competitiveness reaching the level of jealousy in student teachers for securing good internal assessment. Row 15 reveals negative correlations without reaching significance between student teacher adjustment to teacher and social conesion cores of the institutions, probably, due to the same reason as in the case of their adjustment to peers. The results in respect of the relationship between student teacher adjustment to institution and total adjustment mean scores and six measures of social cohesion are negligible and mostly in negative direction as reverled by row 16 and 26.

- 2.7 The intercorrelations in the segment from (10-14,
- 27) x (1-6) indicate correlations between social

of the correlations are very small. The correlations between social cohesion scores on CWG, LSDM, SCST and student teacher attitudes towards teachers are positive but not significant. These correlations indicate a tendency that student teachers attitudes to teachers is related to social cohesion in the institution.

There are a number of concommitant correlations in 2.8 thi rest of the intercorrelation matrix. A perusual of these correlations reveal that student teacher achievement in Educational Psychology and socioeconomic status were found to be significant at .05 level. The remaining correlations between student teacher academic achievement in different papers and various scores of their adjustment and attitude were not found to be significant. However, the scores on practice teaching have significant negative correlation with their adjustment to teachers, total adjustment scores, artitude towards teaching profession and total attitudes scores while the correlations are positive and significant with socio. conomic status. The negative correlations in student teacher achievement in practice teaching and their adjustment and

attitude may be due to the feeling of competition and jealousy developed through internal assessment as pointed out earlier. The student teacher adjustment and attitude have been found to be significantly related as is indicated by the high correlations most of which are significant at .01 level.

## 3-0. Results: Incerential

3.1 The second mode of analysis of the data involves formation of groups of twelve institutions each having high and low social cohesion. The institutions were ranked on the total social cohesion score for grouping. The major purpose of this analysis was to see if the two groups differ significantly on student teacher outcomes in terms of their achievement, adjustment and attitudes. Tables 3.3-3.5 provide results of the analysis. Table 3.3 provides results in respect of student teacher achievement in theory papers 1-5, total scores in the five papers and achievement scores on practice teaching.

Table 3.3

Student Teacher Achievement in Teacher Training Institutions with High and Low Social Cohesion.

Variable	N	Group	Means	S.D.		Significance
1 PE	12	Н	45.47	2.48	1.7633	. 05
	12	L	43•16	3.80	•	
2 EP	12	H	45.63	4.97	1-1283	NS
	12	L	43.09	6.01		
3 PT	12	Н	43.56	5.27	0.0075	N\$
	12	L	43.54	6.44		
4 EEC	12	.I	45.16	6.62	0.8439	N <b>s</b>
	12	r,	43• 18	4.73		•
5 PPE	12	Н	46.22	6.00	1-1536	NS
	12	L	43.44	5.84		,
6 ATT	12	Н	218.69	20.10	2.3662	• 05
	12	L	202.22	13. 32		
7 PTT	12	Н	11-13	1.45	• 7556	NS

3.2 The table reveals that the two groups of institutions formed on their social cohesion levels differ significantly at .05 level in respect of student teacher some vament in principles of Education and total scores of all five papers. The results in respect of student teacher achievement in the remaining theory papers and practice teaching do not turn out to be significant. The results

indicate - tondency as was revealed in the correlations.
Only further research can provide more insight into the crowlen. To that extent the null hypothesis Ho<sub>2</sub> is partly rejected.

3.1 The table 3.4 provides mean standard deviations, for values and significance level in respect of 5 student to their adjustment scores of teacher training institutions with high and low social cohesion.

Stulent Reacher Adjustment in Teacher Training Institutionswith High and Low Social Cohesion.

Viriable	Group	) <i>I</i> .	ileans	ട്∙ D•	t	Significance
i ADI	L	12	10.74	1.05	0.0711	NS
	[4]	12	16.35	1.10		
ADE	I	12	16.31	1.37		
	. !	12	12:44	1.13	1.4860	ΝS
HIGA t	L	12	13.04	0.82		110
	4	12	13.30	1.06	0.8983	Ns
: ICI	L	12	13.64	•81		110
	ł	12	32.69	4.99	0.2868	NS
etc.	L	12	32.00	6.64		11/3
	}!	12	59.00	6.75	0.2141	NS

As is evident from the table, none of the 5 t-values are significant even at .05 level. The results are in conformity with non significant intercorrelation between the measures of social cohesion and student teacher adjustment.

3.4 Table 3.5 presents results in respect of different measures of student teacher attitudes in teacher training institutions with high and low social conesion. The first six variables represent the six areas of attitudes comprising the Ahluwalia attitude Inventory, the seventh variable is the total attitude scores on this inventory and variable 5 represents student teacher attitudes towards the institution. This score has not been added to the total attitude scores because it was measured by a different tool.

Table 3.5

Student Teacher Attitude in Teacher Training Institutions with High and Low Social Cohesion

Variab)	le Gi	oup N	Mean	\$.D.	t	Signific nc.	
1. ATP	Н	12	37.17	5.88	0.0189	NS	
	L	12	37.13	2.52			
'. AGT	Н	12	40.95	4.00	0.5063	NS	
	L	12	41.65	2.66			
3. ACCP	h	12	40.58	5.28	0.0839	NS	
	L	12	40.72	2.39		_	
4. AEP	Н	12	34.52	5.16	0.4311	Ns	
	L	12	33.80	2.54			
5. AD	H	12	36.66	5.58	0.1202	Ns	
	I	12	36.58	3.14		143	
C. ATR	H	12	226.06	12.88	1.7660	• 05	
	L	12	216.41	13.86		• • • • • • • • • • • • • • • • • • • •	
7. nIS	Н	12	53.21	4.21	0.3315	Ns	
3	L	13	53.73	3.46		143	
e. ATI	Н	12	248.42	30.80	0.0395	Ns	
	T 13		248.82	12.98		7/2	

3.5 An examination of the table reveals that only student teacher adjustment towards teacher is the only variable on which the two groups of teacher training institutions differ significantly. The t- value is significant at .05 level. The two groups of teacher training inscitutions do not differ significantly on any other of the eight variables of student teacher attitudes. The results confirm the trends discerned in the intercorrelation matrix.

#### 4.0 Results: Prediction

Another aspect of analysis of the data refers to 4.1 the prediction of student teacher achievement through . social conesion scores as well as their achievement and adjustment scores. Prediction of achievement has been taken up separetely for the student teacher total scores in papers on the Principles of Education, Educational Psychology, Principle. of Teaching, Educational Evaluation and Counselling and Problems of rrimary Education. Practice teaching scores have not been included in these criterion scores. In the predictor variables total scores on social cohesion, student teacher adjustment and attitude have been excluded. Prediction of student teachers scores on practice teaching has been taken up separately. Reverse prediction has also been carried out. Here social consistent total score constitutes the criterion variable and student is acher achievement (five theory papers and practice teaching scores), adjustment and achievement constitute predictor variables. The results have been provided in table 3.6 to 3.8.

4.2 Table 3.6 gives multiple R, multiple R<sup>2</sup>, increment R, increment R<sup>2</sup>, variance explained and F values merging from the stepwise r gression analysis for the prediction of total theory achievement scores of student teachers.

Stopwise Regression Analysis with Achi.vament as the Cricerion Variable

S. No	Variable	R	Increme R	nt R2 Inc:	rement is	of F ianc
1	2	3	4	5 6 <sup>R.</sup>	7	8
1,	ATR	•2884	••	.0831 ~	8.31	2.81 Ns
2	AEP	•5465	•2582	.2986 .2155	29.86	6,321)
3	ADTR	•6115	•0650	•3739 •0753	37.39	5.77 **
4	ACCP	• 6829	.0714	.4663 .0924	46.63	6.12 **
5	ADE	•7168	.0339	.5138 .0475	51.38	5.71 km
6	ADP	•7610	• 0442	.5791 .0653	57.91	5.96 **
7	IPA	-7871	.0261	.6196 .0405	. 61.96	5.82 **
8	ECW	.8274	.0403	.6546 .0650	68.16	6.51 **

<sup>\*</sup> Significant at 0.01 level \*\* Significant at 0.05 level

	2		4	5	<u> </u>		8	
9	ATJ	•8374	.0100	.7013	.0167	70.13	6.00	* *
70	ATP	.8492	.0118	•7212	•0199	. 72.12	5.69	⊁ ⊁
1 J.	ACT	8640	.0148	.7465	.0253	74.65	5 • 62	**
12	CWG	.8708	.0068	.758.4	.0119	75.84	5.23	X- X-
10	¿ca	<b>.</b> 8767	.0059	.7686	.0102	76.86	4.86	**
14	<b>VOT</b>	• 🛪 \$7	.0220	• 7899	.0213	78.99	4.83	**
15	AP	-8902	.0015	.7924	.0025	79•24	4.33	Νs
16	EDRG	.8905	.0003	.7931	.0007	79.31	3.83	N\$

It will be seen in the table 3.6 that the first predictor of student teacher achievement in theory turns out to be their attitude towards teachers which explains 8.3% of the variance in student teacher achievement. Studen teacher attitude towards educational process contributed 21.55% to the variance explained. Other variables relating to student teacher attitudes include their attitude towards child centred practices explaining a little over nine percent of the variance, attitude towards institutions contributing 1.6% to the variance explaining and attitude towards teaching profession explaining about 2% of the variance. Student teacher attitude towards classroom teaching is the succeding predictor

explaining 2.53% of the variance explained. The variance in linea by the student teacher attitude towards pupils is malifitly small. The total variance explained by the student teacher attitudes comes in the second of the next set of predictors of student explaining to student teacher attitudes comes in the student teacher adjustment. Student relating to student teacher adjustment. Student to this variable explaining 7.53% of the variance inch. It is followed by adjustment to teaching with is the fifth predictor explaining 4.75% of the variance. Student teachers adjustment towards institution explains 1.13% of the variance. Thus student teacher is ment variable explain a total of 14.41% of the riance explained.

The interpersonal attraction, the component of the office interpersonal attraction, the component of the seventh predictor attraction, to of the variance explained which is followed by the social concession component of avaluation of the order of a valuation of the seriance. The concess the the proup turns out to be the tentual pressure of the tentual pressure of the variation of the seriance. The concess the the proup turns of the variation of the seriance of the seriance

e in student teacher achievement in theory

y social cohesion components comes to 1 1.69%

cohesion components fall behind the student

ustment and attitude variables in respect

ance explained. However they do have predictive

gh not very large for predicting student

ievement in theory.

ble also reveals that the seventeen variables the table are able to explains 79.42% of e in student teacher achievement which t these variables account for about four-e variance explained while about one-fifth ance still remains unexplained. Other counting for the unexplained variance will searched.

cohesion comp-onents are the last to appear r variables as well as in the amount of plained in student teacher adjustment. The lie in probably stcrootyped lecture coverage ry papers in these institutions resulting adequate perception of this component of the liable of social cohesion and consequent ence of this factor. Micro studies can on this problem.

4.6 Table 3.7 summerises results of stepsion segments ssion analysis with teaching practice score, as and criterion variable and social cohesion component scores, student teacher attitude component scores, student teacher attitude component scores, student teacher adjustment scores and their social considerations status scores as the predictor variables. The solid gives multiple R, increment R, multiple A, increment multiple R, percentage of variance explained and corresponding F. Values,

Table 3.7

TEP WISE REGRESSION - ANALYSIS WITH TEACHING PRACTICE AS THE CRITERION VARIABLE

3. No.	Name	Paris of industry sales	Incre- ment R	R <sup>2</sup>	Incre- ment 2	Percentage of variance	F•	-
1.	EGW	.5652		• 3194		31.94	14.55	*
2.	CWC	.6423	.0771	• 4125	.0931	41.25	10.53	*
3•	IP A	• 6855	•0432	• 4700	· •0575	47.00	8.53	¥
4.	SES	•7157	• 0305	•5123	.0423	51.23	7.53	**
5.	ADTR	.7411	•0254	<b>•</b> 5493	.0370	54.93	6.58	**
6.	ADT	•7679	•0268	•5897	- 0404	58.97	6.23	. <b>*</b> *
7.	EDRG	•7758	• 0079	•6020	.0123	60.20	5.40	**
8.	AEP	•7832	.0074	•6134	.0114	61.34	4.76	**
9.	$\Lambda$ DI	•7917	.0085	•6268	.0134	62 • 68	4.29	X <del>-X</del>
10.	ADP	•7918	*0001	•6370	.0102	63.70	3.86	NS
11.	RT Fo	.8018	•0100	•6430	•0060	64•30	3-44	NS
12.	$\Delta TI$	.8120	.0102	•6594	.0164	65.94	3•23	ΝS
13.	NGT	.8147	.0027	• 6638	.0044	66• 38	2.89	NS
14.	NP	<b>.</b> 8156	.0009	•6653	•0015	66•53	2.56	NS
15.	LSDM	•3163	.0012	.6673	.0020	66.73	2.27	NS
16.	~ ACCP	•8170	.0002	• 6675	.0002	66.75	2.01	ks

<sup>4.7</sup> An examination of the table reveals that the first three predictors turn out to be the social cohesion

1

components of evaluation of the group as a whole (EGW) closeness with the group (CWG) and inter personal attraction (IPA) explaining the percentage variance to the tune of 31.94. 9.31 and 5.75 respectively. social cohesion component of the expressed desire to remain in the group turns out to be the seventh predictor explaining 1.23 percent of the variance. The contribution of the social cohesion component of leadership style and decision making contributes negligibly to the pool of the variance explained. The social cohesion components explain a total of 48.23 percent of the variance which comes to be a little over three-fourth of the total variance explained by the sixteen variables covered in the table. Obviously, when this table is read in conjunction with table 3.6 it presents a constrast in the sense that social cohesion was the last in explaining variance in student teacher achievement in theory, while it has emerged as first in the case of practice teaching attainment. The reversal of the trend might be due to the personal contact student teachers establish with the teacher educators. reason can be that evaluation of the student teaching is itself a team effort. A group of teacher aducators carry out internal evaluation while a team of internal

and external examiners carry out external evaluation.

It implies that social cohesion operates more effectively in student teaching rather than transaction of theory courses.

- Socio economic status turns out to be the fourth 4.8 predictor explaining 4.23 percent of the variance explained. Compared with prediction of student achievement in theory it is a better predictor variable in the case of student teacher attainment in practice teaching. Student teacher adjustment components of adjustment towards teacher or adjustment towards teaching constitute the next two predictors explaining 3.70 and 4 percent respectively. student teacher adjustment to-The wards the institution and adjustment towards peers appear at number ninc and ten as perdictors explaining 1.14 percent and 1.34 percent respectively. These components put together explain a total variance of 10.18 percent of the variance explained.
- 4.9 The student teacher attitude components of attitude towards educational process, attitude towards ceachers, attitude towards institution, attitude towards classroom teaching, attitude towards pupil and attitude towards child centred practices put together explain the total variance of 2.85 percent of the variance explained.

All the sixteen variables put together have been able to explain a total variance of 66.75 percent of the variance explained. The remaining 33.25 percent of the variance remains yet to be explained. Variables explaining the remaining variance will have to be identified through further research.

4.10 Table 3.8 provides the results of reverse prediction emerging from the stepwise regression analysis of summatted social cohesion score as the criterion veriable and student teacher achievement in individual theory papers, adjustment and attitudes. The table gives eleven variables alongwith multiple R, increment R, multiple R, increment R, increment R, increment R, and the percentage of variance explained and corresponding F-value.

Table 3.8 '
Stepwise Regression Analysis of Social Cohesion Score as Criterion

S. No V	ariables	R	Incremen R	t 2	Increme 2	nt % of V. Expl	F Lained	r•
1	PTT	• 4455	<b>=</b>	-1985	-	19.85	7 • 68	*
2	ADT	•5918	• 1463	<b>3503</b>	.1518	35.03	8.09	*
3	EEC	.6675	.0757	• 4455	.0952	44.55	7.77	*
4	ADTR	•7142	• 0467	.5101	.0646	51.01	7.29	<b>*</b> *
5	ATP	•7345	.0203	•5395	.0294	53.95	6.33	**
6	PPE	•7465	.0120	-5572	.0177	55.72	5.46	**
7	'VDI	•7632	.0167	• 5825	.0253	58.25	4.98	<b>*</b> *
8	EP	-7818	•0786	.6113	.0288	61.13	4.72	**
9	ADP	•7890	•0072	• 6225	.0112	62 • 25	4.21	i.s
10	ATI	•7912	.0022	. 6260	.0035	62.60	3. 68	NS
11 .	PΤ	•7923	•0011	6277	.0017	62.77	3.22	NS

It can be seen in the table that the student teacher score in practice teaching turns out to be the first predictor explaining 19.85% of the variance in social cohesion scores in the elementary teacher training institutions. Student teachers scores in Educational Evaluation and Counselling, Problems of Primary Education, Educational Psychology and Principles of Teaching appear

at number three, six, eight and eleven as predictor variables explaining 9.52%. 1.77% 2.88% and .17% of the variance in social cohesion. The total variance explained through student teacher achievement in theory papers come out to be 14.34% of the variance explained. Student teacher adjustment of teaching curns out to be the second predictor explaining 15.18% of the variance. Student teacher adjustment to teachers, institution and adjustment to peers arm out to be fourth, sixth and minth predictors explaining 6.46, 2.53 and 1.12% of the variance explained. The four student teacher adjustment components put together explain 25.29% of the variance. acjustment towards institution is only the adjustment predictor variable appearing in the table but its contribution to the variance explained is a meager ( 35 percent). To total variance explained by the eleven variables come to 62.77% which leaves about one third of the variance une xplained.

4.11 A perusual of the three tables relating to regression analysis (3.6 - 3.8) reveals a few important points. Firstly social cohesion obtaining in the teacher training in stitutions has low predictive value for student teacher achievement in theory. Secondly, the social cohesion has higher predictive value for the prediction

of student teacher achievament in practice leaching.

The two findings indicate that in theory courses social cohesion effect is not reflected to the extent that is expected. This may be probably due to single channel dominant lecturing approach followed in the teacher training institutions to cover the entery courses. The interpersonal contact during practice teaching might be responsible for the reflection of better the pation of social cohesion prevalent in the entered training institutions as indicated by the higher predictive value of social cohesion on practice teaching.

It may be recalled that the study purpure d to investigate into the relationship between social One will. obtaining in elementary teacher training institutions and student teacher outcomes in terms of their achievem at, adjustment, and attitude as measures of institutional efficiency. The study was conducted in 33 clumentary teacher training institutions of Utter landesh. woist Cohesion Assessment Inventory was used to measure social cohesion in the institutions, while student teacher marks obtained in different theory papers as well as proclice teaching examination conducted by the Board were considered as measures of their achievement. Their adjustment and attitudes were measured through the Student Teacher Assessment Inventory developed by Dutta and Teacher Attitude Inventory developed by hluwilin. co-rrelational, inf rential and prediction statistics were used for analysis and interpretation of the data. Product moment correlations between different variables of social cohesion, student teacher achievement, adjustment and attitude scores were computed. The institutions were also classified into two groups with high and low social colesion and t-test was employed to test the significance of

difference between means of student teacher outcome variables. Stepwise regression analysis was employed to predict student teacher achievement in theory as well as practice teaching. Social cohesion was also predicted from student teacher outcomes as well as their socioeconomic status for obtaining concomitant results.

Social cohesion variables have found to be having 1.2 significant positive correlation with academic achievement variables relating to theory as well as practice teaching. While their relationship with attitude and adjustment are mostly nonsignificant but in positive direction with a few exceptions. The correlational results are also supported by inf ...nti.l : sults. Social cohesion has turned out to be a strong predictor of student teacher achievement in practice teaching. while it does predict student teacher academic achievement the predictability is not high. Strangely though enough, social cohesion should influence affective student teacher outcomes of attitude and adjustment. It is future, research which is going to clarify the apparent contradiction. However, implication of the study can be considered with a caution because of the nonavailability of supporting or contradictory results due to the paucity of research in this area in educational setting.

- 1.3. As a context variable in restarch on the ching social cohesion appears to be influencing soudant; teacher achievement in practice traching. This may be due to the higher level of interaction between the tracher and student trachers. The interaction initiates from planning for teaching tracking fedback to further practice. Is to possible that interactive teaching in the classical also influences student teacher achievement in the ery as well? To well be werthwhile to study social can sion in relation to interaction level in classrooms, ultimately a latting it to product variables.
- 1.4 The present study is correlational and exploratory in nature. It has pointed to some tracks which is do to be investigated further through experimental studies. The extent of variation in the social consideral value in different institutions beinglow, it will be we can while to study its effect through simulating levels if social cohesion and its effect on a scring pack as to well as product variables.
- 1.5 It is assumed in the study that social consistent is perceived per so by the students, influences their learning behaviour, which in turn, influences their achievement, It is also assumed that the social conesion

influences teacher classroom behaviour as well.

It will be worthwhile to carry out study with social cohesion as a context variable, the process variables and product variables simultaneously to test these assumptions. This area of research appears to be potential for improving teacher effectiveness, particularly in view of the experience with this concept in industrial organizations. It has also shown its effectiveness in defence organizations. A programme of interrelated study involving different variables in the context of teaching would provide useful information for planning and transacting effective teaching.

1.6 The study is exploratory in nature. It has raised a number of questions rather than answering even those which it purpurted to answer. But there is no occasion for pessimism. The study is concluded with the hope that it will attract more research attention in the context of educational setting than it has done so far it's hoped that more researchers would enrich the area with their ingenuity and creative research they are likely to be engaged in.

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# अध्यापक शिक्षा विभाग राष्ट्रीय शेक्षिक अनुसंचान और प्रशिक्षण परिषद श्री अरविन्द मार्ग, नई दिल्ली-110016

सायाजिक संसक्ति निर्शाण तालिका (S C A I-Social Cohesion Assessment Inventory)

> रुन०के० नेगीरा आर०के० चोपडा

### निर्देश

प्रस्तुत प्रश्नावली अध्यापक प्रशिक्षण िद्यालयों ने कार्य करने वाले अध्यापक शिक्षकों की साणाजिक संसमित (Bocial Cohesion ) के विषय में है। इसमें दिये गये कथन अध्यापक शिक्षकों के आपसी सम्बन्धों, उनके इवारों अध्यापक शिक्षक – सपूह का मूर्योक्षन, उनमें आपसी निकटता, उनकी वर्तमान विद्यालय के अध्यापक शिक्षक – सपूह ने रहने की इच्छा, प्रधानाध्यापक का कार्य करवाने का ढंग तथा निर्णय लेने की क्रिया में अध्यापकों के अनुभवों के विषय में है.। आप इन कथनों को 'अच्छे' या 'बुरे' व्यवहार की दृष्टि से प्रयोक्षन न करें, अपितु इस दृष्टि से अपनी राथ है कि अमुक कथन आपके साथी अध्यापकों के आपसी व्यवहार य ताल – मेल को किस सीमा तक दर्शाता है।

प्रत्येक पृष्ठ के उत्परी भाग पर दिये गये कथनों के लिए तीन सम्भावित परिस्थितियों (बहुत बार ऐसा ही अनुभव होता है, कभी-कभी ऐसा अनुभव होता है, कभी भी ऐसा अनुभव नहीं होता) दिये गये हैं। आपके साथियों का आपसी व्यवहार इन परिस्थितियों में से जिस परिस्थिति के निकट है उसके सामने बने खाने में सही का चिन्ह ( ) लगाइए। समय का कोई प्रतिबन्ध नहीं है। पिन्र भी शीधता से अपनी राय दे। विभ्यास कीजिए कि आपके उत्तर गोपनीय रखे जायेंगे तथा उनका प्रयोग केवल अनुसंधान के लिए ही किया जायेगा।

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